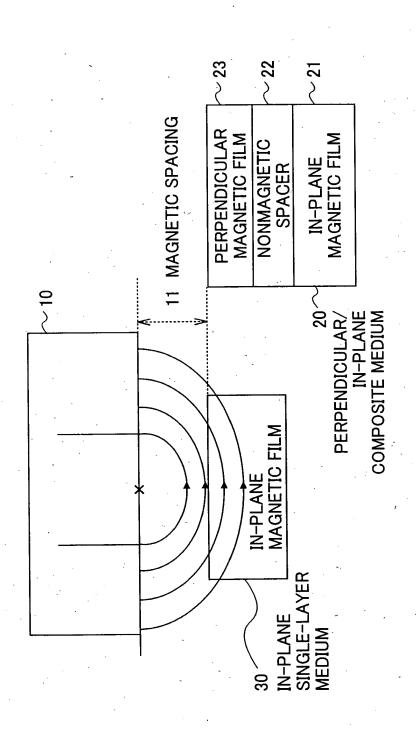


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| EXCHANGE INTERACTION PARDMETER he | , , | |
|-----------------------------------------|------------------------------------|------------------------------------------------|
| PARTICLE PARTICLE (nm) (nm) | и | , |
| THICKNESS (nm) | 10 | 1/1/10 |
| | IN-PLANE SINGLE-LAYER MEDIUM | PERPENDICULAR/ IN-PLANE COMPOSITE MEDIUM |

* IN THE ORDER OF PERPENDICULAR MAGNETIC FILM, NONMAGNETIC SPACER, AND IN-PLANE MAGNETIC FILM.

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| * | PEF | PERPENDICULAR MAGNETIC FILM | LAR ILM | - N A | IN-PLANE MAGNETIC FILM | ILM | > | TRANSITION |
|-------------------------------------|----------------|--------------------------------|--------------|-------------|---------------------------|--------------|--------|------------------|
| | Ms (emu/cc) | (kOe) | tBr (Gum) | Ms Hk (kOe) | (kOe) | tBr (Gum) | (%) | BREADTH πa(%) |
| IN-PLANE SINGLE-LAYER MEDILIM | | | | | | | %0 | %0 |
| DENDICIII AR/ | 250 | 80 | 3.1 | 200 | 4 | | -1.6% | -0.4% |
| IN-PLANE COMPOSITE MEDIUM | 500 | & | 6.3 | | | | -16.0% | 7.9% |

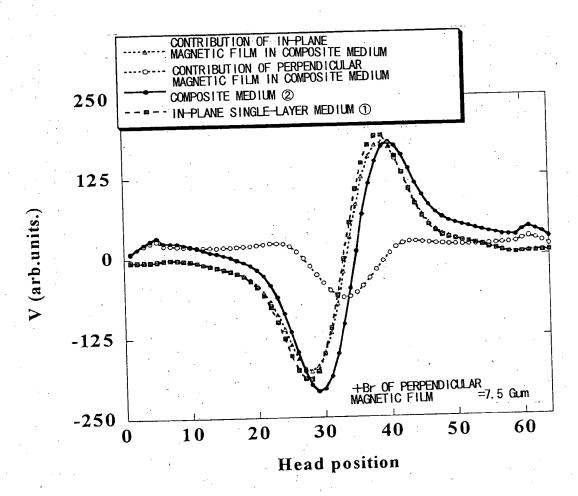
MAGNITIC RECORDING MEDIUM Maeda et al. Greer, Burns & Crain, Ltd. Ref. No. 0941.65907 Sheet 4 of 11

| EXCHANGE INTERACTION PARDMETER he | <u>د</u> | |
|-----------------------------------------|------------------------------------|------------------------------------------------|
| PARTICLE PARTICLE (nm) (nm) | и | |
| THICKNESS (nm) | 9 | * 1/1/6 |
| | IN-PLANE SINGLE-LAYER MEDIUM | PERPENDICULAR/ IN-PLANE COMPOSITE MEDIUM |

* IN THE ORDER OF PERPENDICULAR MAGNETIC FILM, NONMAGNETIC SPACER, AND IN-PLANE MAGNETIC FILM.

FIG.5

FIG. 6A

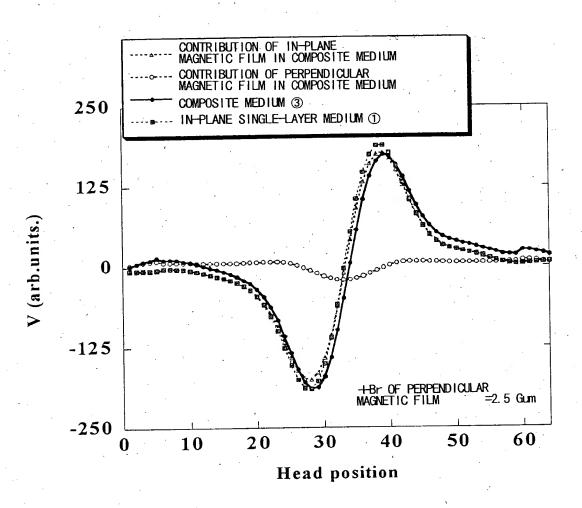


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FIG. 6B



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| ICULAR PERPENDICULAR IC FILM MEGNETIC FILM (cc) (kOe) | 0 17.5 | 0 18.0 | 0 18.0 |
|-----------------------------------------------------------------|--------|--------|--------|
| Ms OF PERPENDICULAR MAGNETIC FILM (emu/cc) | 200 | 200 | 200 |
| Hk OF IN-PLANE MAGNETIC FILM (k0e) | 12.6 | 12.6 | 12.6 |
| Ms OF IN-PLANE MAGNETIC FILM (emu/cc) | 009 | 009 | 009 |
| RECORDING HEAD MAGNETIC FIELD AT THE CENTER OF THE MEDIUM (kOe) | 7.1 | 7.5 | 8.5 |

FIG.8A

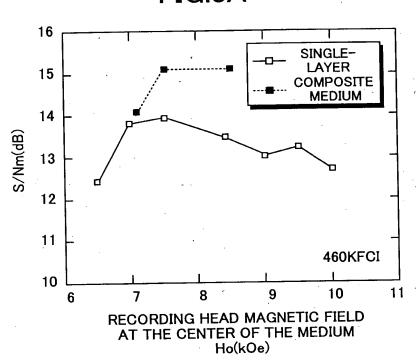
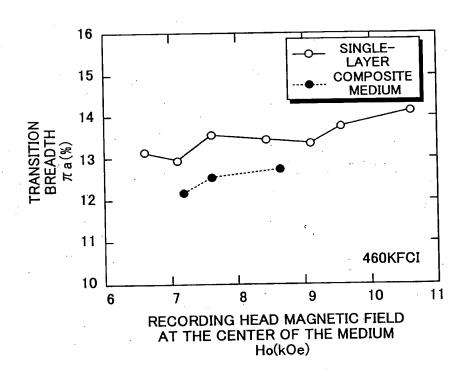


FIG.8B

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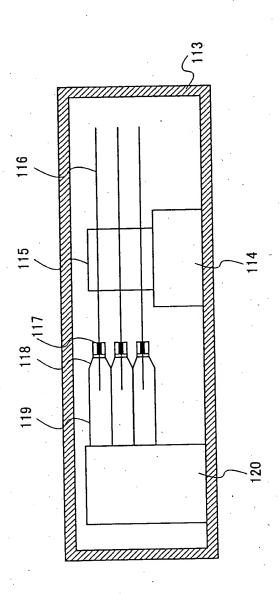
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